

Serial No. 10/611,748

Amendment Dated March 20, 2007

Reply to Office Action of September 27, 2006

APPENDIX A

Germline: Definition and Much More

(4 Pages)

Answer: Disabled

germline

[Find A Therapist](#)

View Profiles of Local Therapists. Search by Location and Specialty.

www.NetworkTherapy.com

Science and Technology Dictionary



[Technology Dictionary](#)

germline ('j·rm 'l·n)

(biology) A lineage of cells from which gametes are derived. Also known as germ track.

Genetics

[Library](#) > [Health](#) > [Genetics](#)

germ-line

Cells giving rise to eggs or sperm.

Medical

[Library](#) > [Health](#) > [Medical Dictionary](#)

germ line

n.

Cells from which gametes are derived.

Wikipedia

[Library](#) > [Reference](#) > [Wikipedia](#)

germline

In biology and genetics, the germline of a mature or developing individual is the line (sequence) of germ cells that have genetic material that may be passed to a child.

For example, sex cells, such as the sperm or the egg, are part of the germline. So are the cells that produce sex cells, called gametocytes, the cells that produce those, called gametogonia, and all the way back to the zygote, the cell from which the individual developed.

Cells that are not in the germline are called somatic cells. Such are, for example, all cells of the liver. If there is a mutation or other genetic change in the germline, it

will be/can be passed to offspring, but for a change in a somatic cell it will not be.

Germline cells also have the distinction of being immortal, i.e., they are supported by a special enzyme called telomerase. This enzyme is dedicated to lengthening the DNA primer of the chromosome, allowing for unending duplication. Somatic cells, by comparison, can only divide around 30-50 times, as they do not contain telomerases.

"Germline" can refer to a lineage of cells spanning many generations of individuals; for example, the germline that links any living individual to the hypothetical first eukaryote of about one billion years ago, from which all plants and animals descend.

See also

- [August Weismann](#)
- [epigenetics](#)
- [Weismann barrier](#)
- [Germ line development](#)

External links

- [Epigenome NoE](#)

This entry is from Wikipedia, the leading user-contributed encyclopedia. It may not have been reviewed by professional editors (see [full disclaimer](#))

[Donate to Wikimedia](#)

Copyrights:



Professional

“ Cite ”

Science and Technology Dictionary definition of **germline**

McGraw-Hill Dictionary of Scientific and Technical Terms. Copyright © 2003, 1994, 1989, 1984, 1978, 1976, 1974 by McGraw-Hill Companies, Inc. All rights reserved. [More from Science and Technology Dictionary](#)

“ Cite ”

Genetics information about **germline**

Genetics. Copyright © 2003 by The Gale Group, Inc. All rights reserved. [More from Genetics](#)

“ Cite ”

Medical definition of **germline**

The American Heritage® Stedman's Medical Dictionary Copyright © 2002, 2001, 1995 by Houghton Mifflin Company. [More from Medical](#)

“ Cite ”

Wikipedia information about **germline**

This article is licensed under the [GNU Free Documentation License](#). It uses material from the Wikipedia article "Germline". [More from Wikipedia](#)

Get the FREE Answers.com IE Toolbar! [Download Now](#) [More Info](#)

Answers. brilliant Go [6](#) Today's Highlights

Add Answers to the IE7 Toolbar Search Box! [Add Now!](#)

On this page:

[Select Article](#)



[E-mail](#)



[Print](#)




[Link](#)

Tell me about:

germline

 Go

[Home](#) [Webmasters](#) [Site Map](#) [About](#) [What's new](#) [Help](#) [Advertise](#) [RSS](#) 

[Feedback](#) [Help Us Improve](#) [Privacy Policy](#) [Terms of Use](#) [Privacy Policy](#) [IP Issues](#) [Disclaimer](#)